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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/756,858	01/14/2004	Kent E. Peterson	NORTE-523A	3419
7590	06/07/2005		EXAMINER	
Bruce B. Brunda STETINA BRUNDA GARRED & BRUCKER Suite 250 75 Enterprise Aliso Viejo, CA 92656			HAM, SEUNGSOOK	
			ART UNIT	PAPER NUMBER
			2817	
				DATE MAILED: 06/07/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

AK

Office Action Summary	Application No.	Applicant(s)
	10/756,858	PETERSON ET AL.
	Examiner	Art Unit
	Seungsook Ham	2817

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 19 May 2005.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-10 and 12-24 is/are pending in the application.
- 4a) Of the above claim(s) 19-22 is/are withdrawn from consideration.
- 5) Claim(s) 15-18 is/are allowed.
- 6) Claim(s) 1-10, 12-14, 23 and 24 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 19 May 2005 is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
	6) <input type="checkbox"/> Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 5-7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claims 5-7, "the ridges" lacks antecedent basis. It should be corrected to --the ridge segments--.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

((b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3, 5-10, 12-14, 23 and 24 are rejected under 35 U.S.C. 102(b) as being anticipated by Saad (US '039).

Saad (figure 1) discloses a ridge waveguide filter 2 having a slow-wave structure comprising: an elongate rectangular hollow tube defined by a conductive side wall 6, 8; at least one hollow ridge 18 protruding from a first part 24 of the conductive sidewall into the hollow tube and extending along an elongate direction of the hollow tube (see fig. 4); wherein the ridge is partitioned by a plurality of equally spaced trenches/spaces 20 into

a plurality of ridge segments. Moreover, the ridge segments 18 are equally spaced and parallel with each other (see figs. 2, 5(a)-5(e)).

Regarding claims 7 and 8, the conductive sidewall having a first part 24 (where the plate 14 is located at) and opposite second part (the upper portion of the waveguide 8, 9, see fig. 2) and the bottom surface 22 of the each of ridges is parallel with the second part of the conductive sidewall.

Regarding claim 9, at least one series of ridge segments 18 are protruding from the conductive top wall 24 (note that the term, "top wall" is a relative term depending on the viewing direction and the reference point/object, see also fig. 4) into the hollow tube and extending along an elongated direction of the hollow tube; where each of the ridge segments has a pair of opposing side surfaces (the side surfaces that faces the waveguide sidewall 6 and 8) parallel to an separated from the conductive sidewalls of the hollow tube.

Regarding claims 23 and 24, Saad (fig. 4) discloses a plurality of inductances Ls are provided between the ridge segments 12, 14, 16, and the segments are capacitively Cp coupled to a bottom wall of the waveguide 28 (i.e., low pass filter, col. 2, lines 35-52). And, the bottom surface of the ridge is parallel to the bottom wall portion of the waveguide (see figs. 4 and 6(a)-7(c)).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

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invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 4 rejected under 35 U.S.C. 103(a) as being unpatentable over Saad (US '039).

Providing a circular hollow tube is considered as an obvious design modification to obtain a desire filter characteristics, and it requires only a routine skill in the art.

Allowable Subject Matter

Claims 15-18 are allowed.

The following is a statement of reasons for the indication of allowable subject matter: The combination of method steps a) and e) in claim 15 is not shown nor suggested by any prior art.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Seungsook Ham whose telephone number is (571) 272-2405. The examiner can normally be reached on Monday-Thursday, 8:00AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal can be reached on (571)-272-1769. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Seungsook Ham
Primary Examiner
Art Unit 2817

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